Special Issue

Single-Molecule Magnets

Message from the Guest Editors

Molecular magnets have been attracting increasing attention in recent years, from both experimental and theoretical perspectives. The efforts in this research allowed for novel molecular magnets, displaying hysteresis at higher temperatures and significantly larger blocking barriers, for temperature-activated relaxation. However, magnetic performance of the current top-performing, single-molecular magnets is preventing their practical application in the field of information storage. The purpose of this Special Issue is to cover latest research in this field: novel synthetic routes and compounds, innovative measurement techniques, as well as theoretical studies unravelling important factors, such as magnetic anisotropy, crystal field splitting, magnetic relaxation, structure–property relationships, etc. Perspectives on using existing and novel molecular magnets in neighboring research domains (quantum computing, luminescent materials, etc.) are highly welcome.

Guest Editors

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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